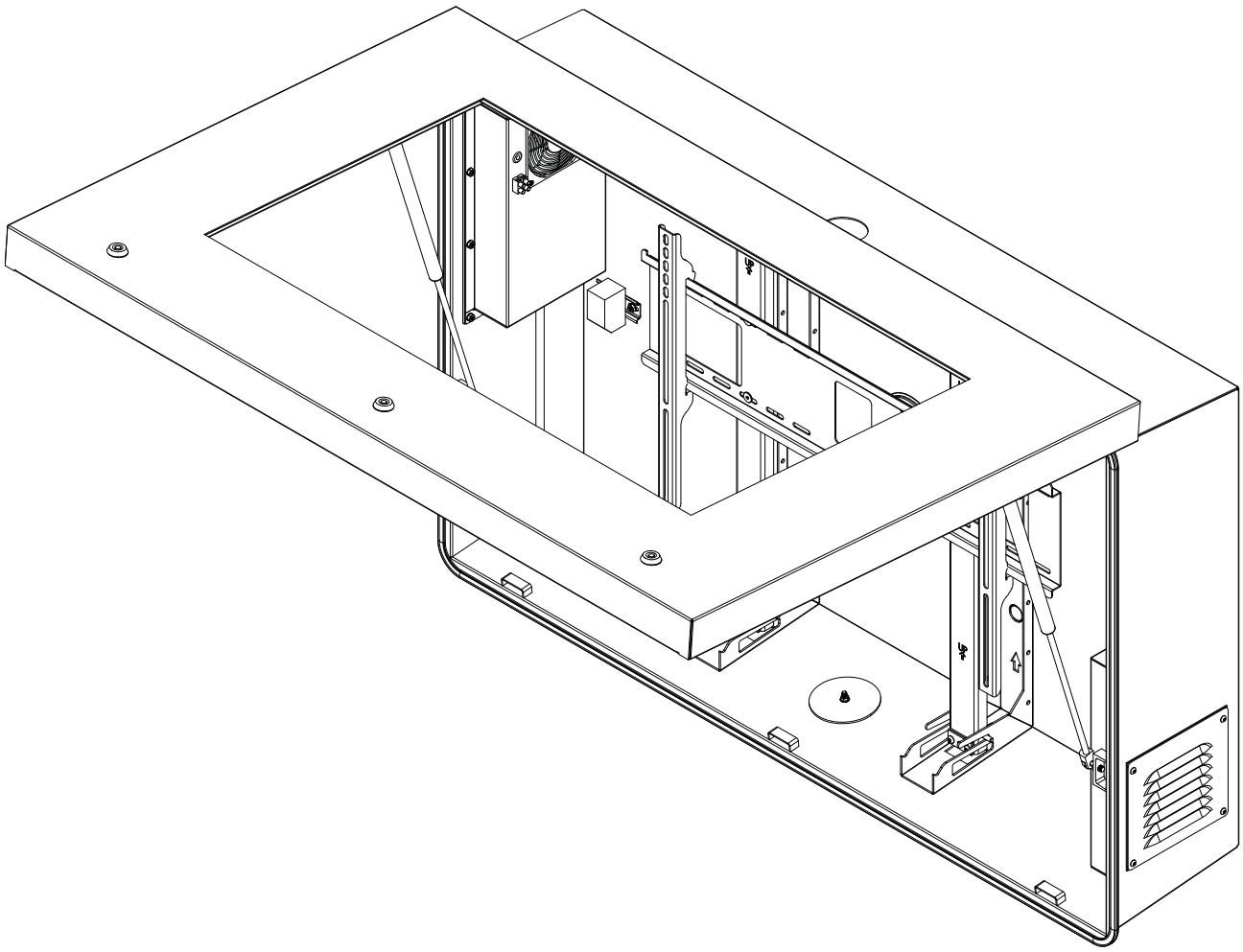
peerless® MOUNTS

Installation and Assembly:

Peerless Environmental Enclosure for 42" Flat Panel Screens

Model: FPE42F-S, FPE42FH-S, FPE42F-B



Max Load Capacity: 250 lb (113 kg)

2300 White Oak Circle • Aurora, IL 60502 • (800) 865-2112 • Fax: (800) 359-6500 • www.peerlessmounts.com

ISSUED: 07-16-10 SHEET #: 061-9050-4 03-04-11

NOTE: Read entire instruction sheet before you start installation and assembly.

⚠ WARNING

- Do not begin to install your Peerless product until you have read and understood the instructions and warnings contained in this Installation Sheet. If you have any questions regarding any of the instructions or warnings, for US customers please call Peerless customer care at 1-800-865-2112, for all international customers, please contact your local distributor.
- Due to outdoor environmental conditions such as strong wind gusts, heavy snow, hail, rain, etc. The environmental enclosure and hardware, must be inspected at least once a year, and immediately following any time winds exceed 90 mph. A qualified installer or inspector must check for signs of rust, loose fasteners, bent metal, etc. If evidence of excessive wear, deterioration or any unsafe condition is observed, this product must be taken out of service immediately. Direct all inquiries to customer care if you have any questions.
- Glass face of enclosure must avoid direct sunlight or damage to display may occur.
- This product should only be installed by someone of good mechanical aptitude, has experience with basic building construction, and fully understands these instructions.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Never exceed the Maximum Load Capacity. See page one.
- If mounting to wood wall studs, make sure that mounting screws are anchored into the center of the studs. Use of an "edge to edge" stud finder is highly recommended.
- Always use an assistant or mechanical lifting equipment to safely lift and position equipment.
- Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.
- This product was designed for use with other outdoor products only
- This product was designed to be installed on the following wall construction only;

WALL CONSTRUCTION	HARDWARE REQUIRED
• Wood Stud	Included
• Wood Beam	Included
• Solid Concrete	Contact Qualified Professional
• Cinder Block	Contact Qualified Professional
• Brick	Contact Qualified Professional
• Other or unsure?	Contact Qualified Professional

Tools Needed for Assembly

- stud finder ("edge to edge" stud finder is recommended)
- drill
- phillips screwdriver, 5 mm allen wrench, flathead screwdriver
- 5/32" (4 mm) bit for wood stud wall
- level
- hammer

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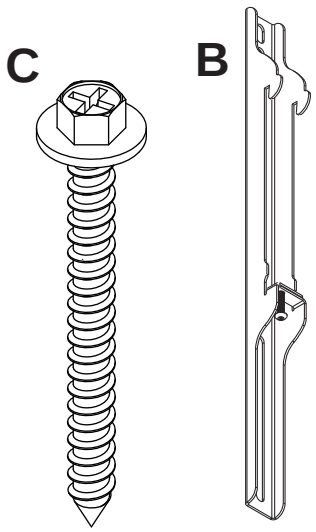
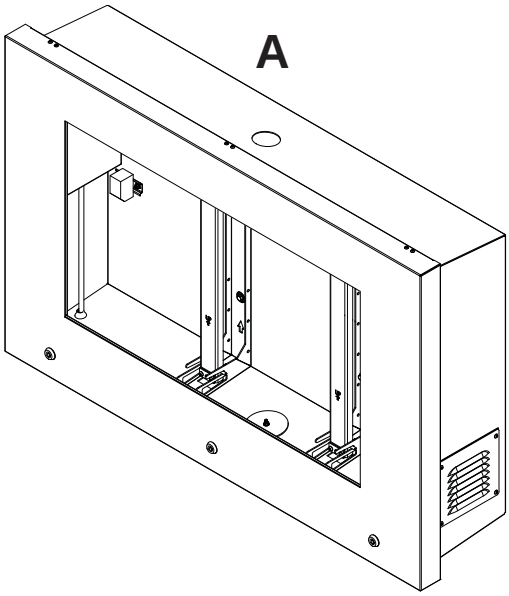
Before you begin, make sure all parts shown are included with your product.

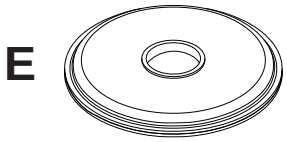
Parts may appear slightly different than illustrated.

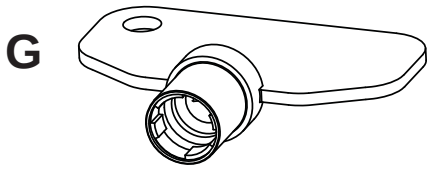
Parts List

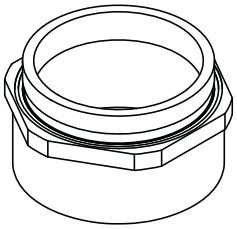
	Description	Qty.	FPE42F-S Part #	FPE42FH-S Part #	FPE42F-B Part #
A	enclosure assembly	1	061-7246	061-7304	061-T1246
B	adapter brackets	2	201-P1513	201-P1513	201-P1513
C	wood screws	6	5S1-015-C03	5S1-015-C03	5S1-015-C03
E	sealed washer	6	540-4067	540-4067	540-4067
F	ROXTEC cable seal	1	600-0107	600-0107	600-0107
G	key	1	600-0116	600-0116	600-0116
H	12 mm flat head screw	4	520-2325	520-2325	520-2325
I	serrated locknut	4	530-2021	530-2021	530-2021
J	wall plate	1	201-P1018	201-P1018	201-P1018
K	cord cover plate assembly (not shown)	2	061-7285	061-7285	061-T1285
L	4 mm allen wrench	1	560-1727	560-1727	560-1727

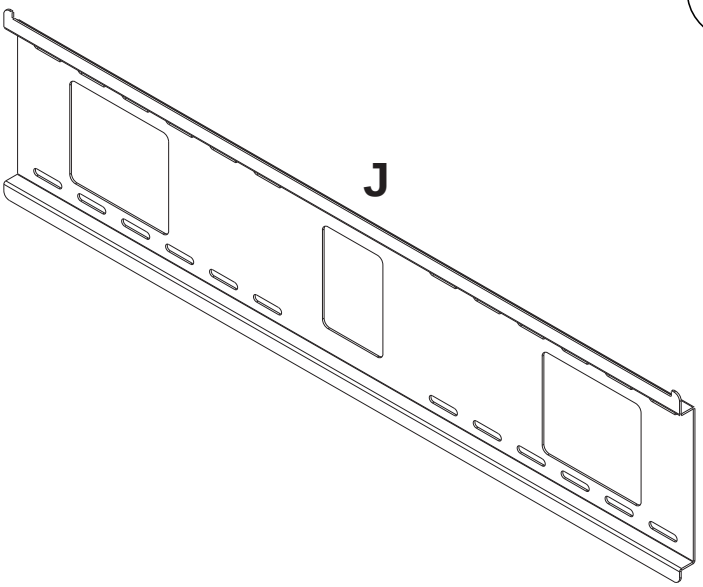


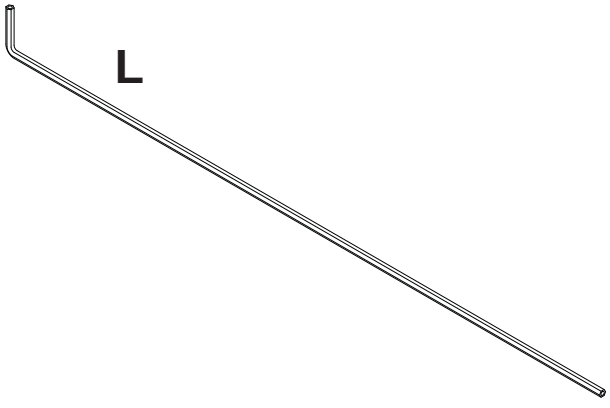




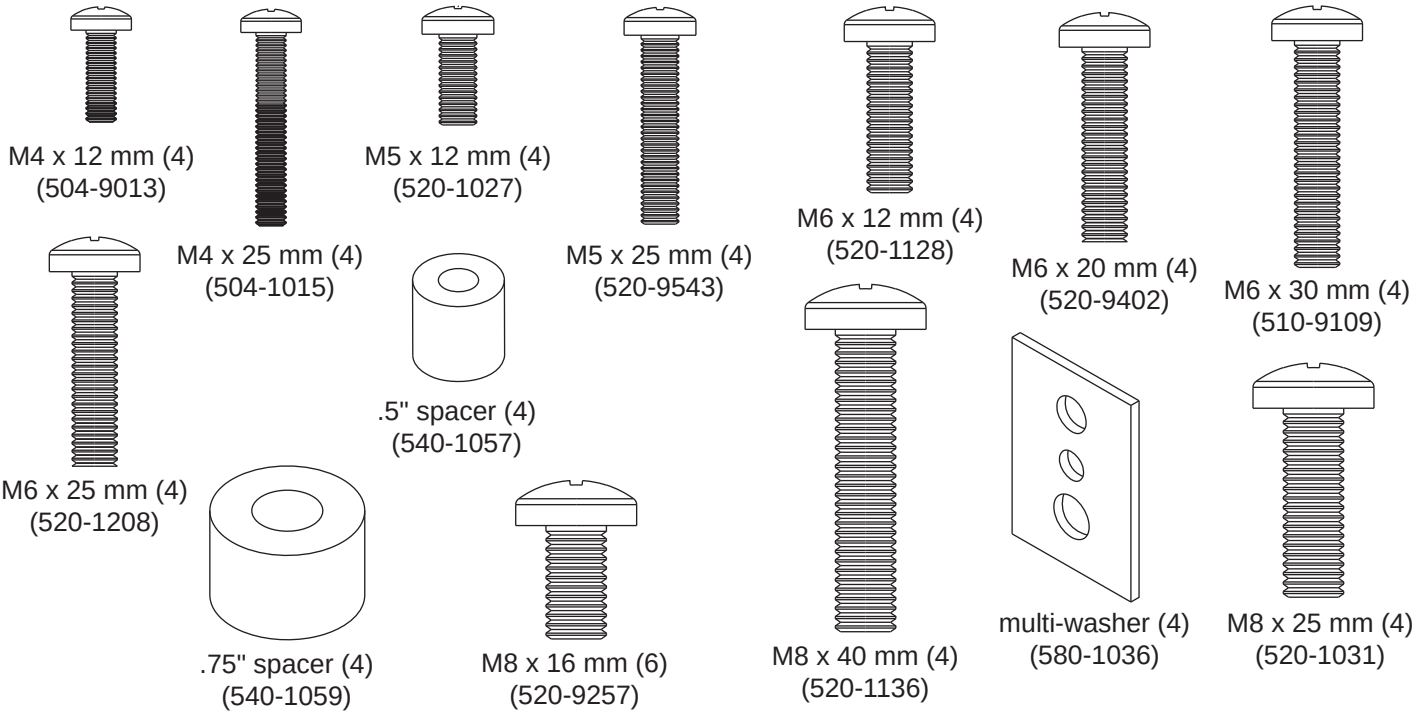








Adapter Bracket Fasteners



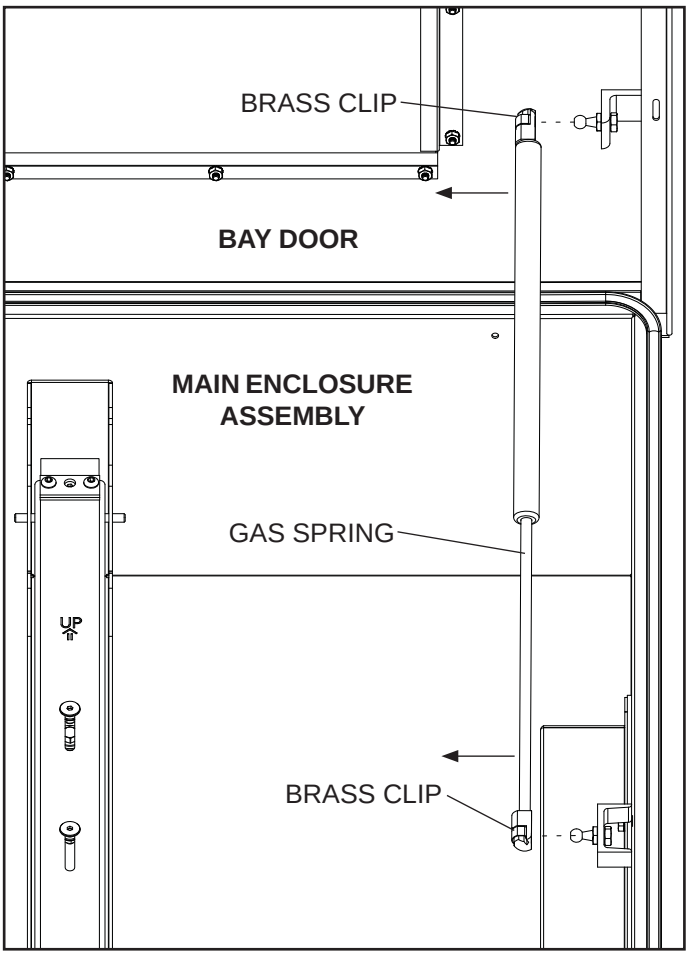
Optional Removal of Bay Door

⚠ WARNING

- Grasp bay door firmly. Bay door will swing freely when gas springs are removed.

1 Bay door may be removed for ease of installation to mounting surface. **NOTE:** Removal of bay door is optional. Installation may be completed without removing bay door.

Insert flathead screwdriver under brass clip of gas spring shown in detail 1 and pry up. Pull gas spring away from bay door.



DETAIL 1

1-1 Remove center set of 10-24 x .5" phillips screws from inside of enclosure assembly (**A**) as shown in figure 1.1. Slide bay door to the right to disengage hinges and lift off of enclosure assembly.

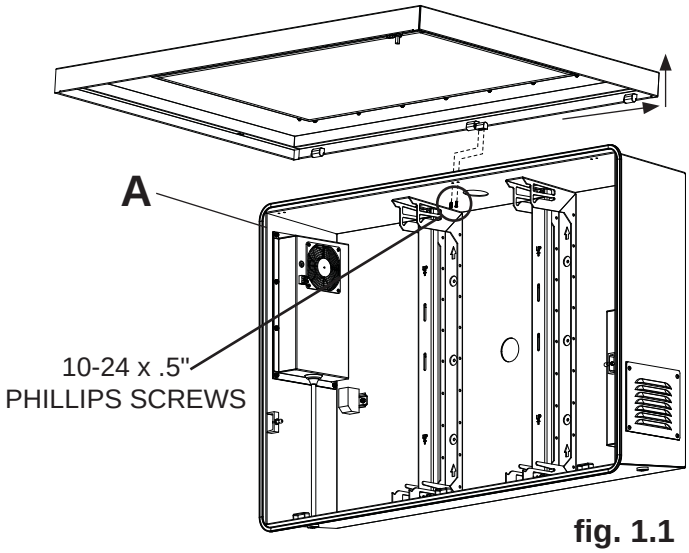
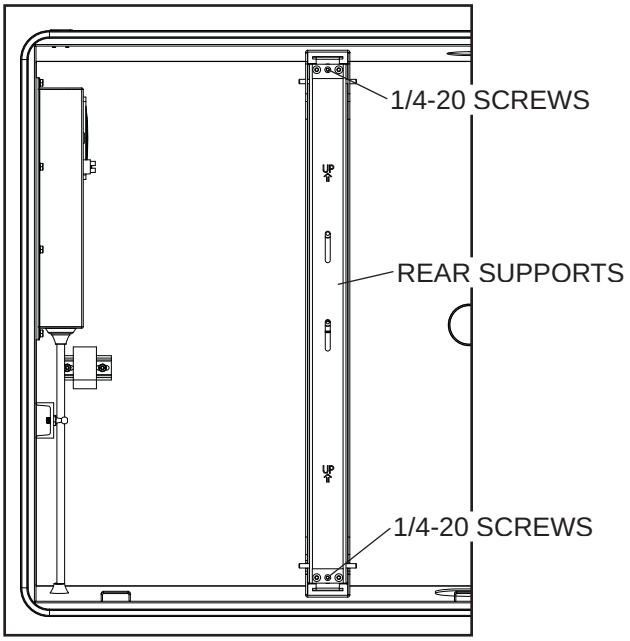


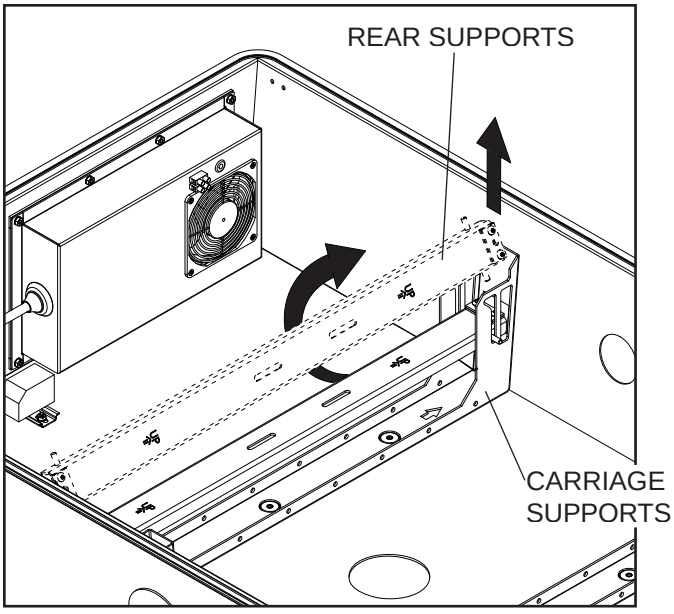
fig. 1.1

Installing Cables

1-2 **Removal of Rear Supports:** Loosen 1/4-20 x 2.36" screws at top and bottom of rear supports as shown in detail 2. Lift up rear supports, tilt to the side, and pull out of carriage supports as shown in detail 3.



DETAIL 2



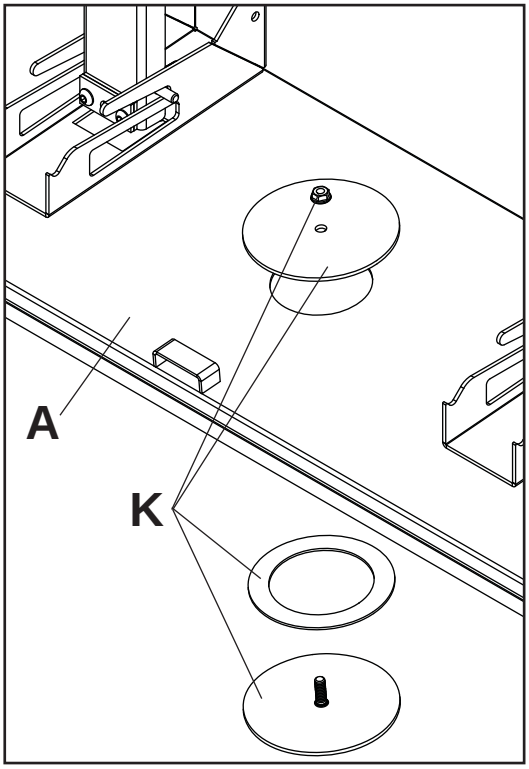
DETAIL 3

2 Cables may be routed through top, bottom, or rear of main enclosure assembly. An additional available option for cable entry while maintaining the waterproof seal of the enclosure is the ROXTEC cable gland (**F**).

Install ROXTEC hardware to top, bottom, or rear of enclosure assembly (**A**). **NOTE:** If cables are routed through rear enclosure assembly hole, wall mount is required for mounting to wall.

Follow the ROXTEC manufacturers' instructions for installation included in ROXTEC cable gland (**F**) box.

Install cord cover plate assembly (**K**) to remaining open holes of enclosure assembly (**A**) as shown in detail 4.



DETAIL 4

Installation to Wood Stud Wall

⚠ WARNING

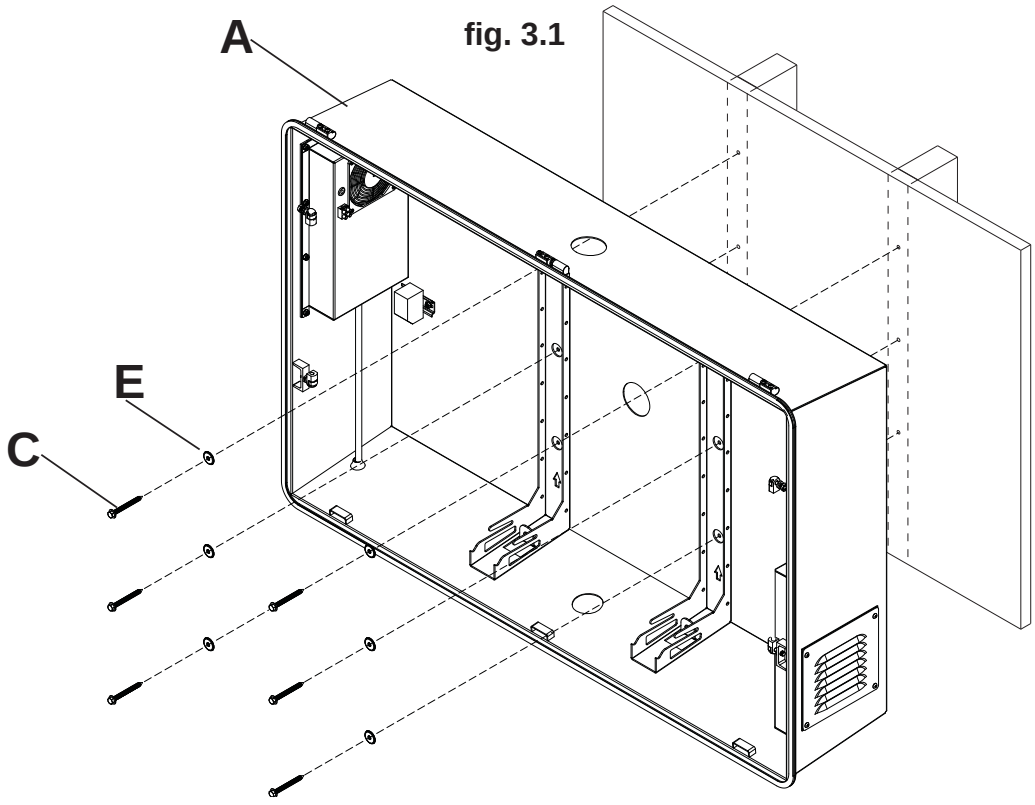
- DO NOT lift more weight than you can handle. Always use an assistant or mechanical lifting equipment to safely lift and position enclosure assembly (**A**).
- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Tighten wood screws so that the enclosure assembly is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lbs. (9 N.M.).
- Make sure that mounting screws are anchored into the center of the stud. The use of an "edge to edge" stud finder is highly recommended.
- Hardware provided is for attachment of mount through standard thickness drywall or plaster into wood studs. Installers are responsible to provide hardware for other types of mounting situations.

3 **NOTE: This step is for mounting enclosure assembly (A) flush against supporting surface. For use with mount, follow instructions provided with wall mount.**

Use a stud finder to locate the edges of the studs and draw a vertical line down each stud's center. Place enclosure assembly (**A**) on wall as a template, level and mark the center of the six mounting holes. Make sure that the mounting holes are on the stud centerlines. Drill six 5/32" (4 mm) dia. holes 2.5" (64 mm) deep. Make sure that the enclosure is level and secure it using six 2.5" wood screws (**C**) and six washers (**E**) as shown in figure 3.1.

Skip to step 4.

fig. 3.1



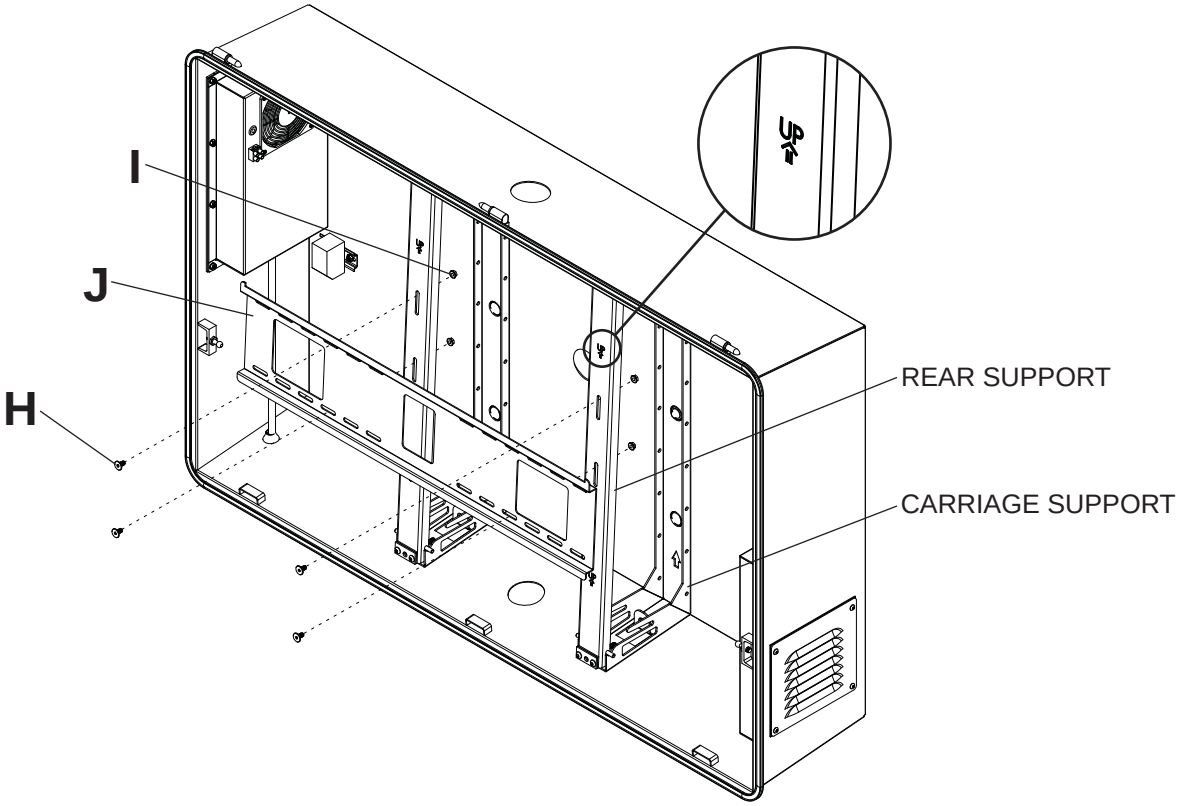
Wall Plate Installation

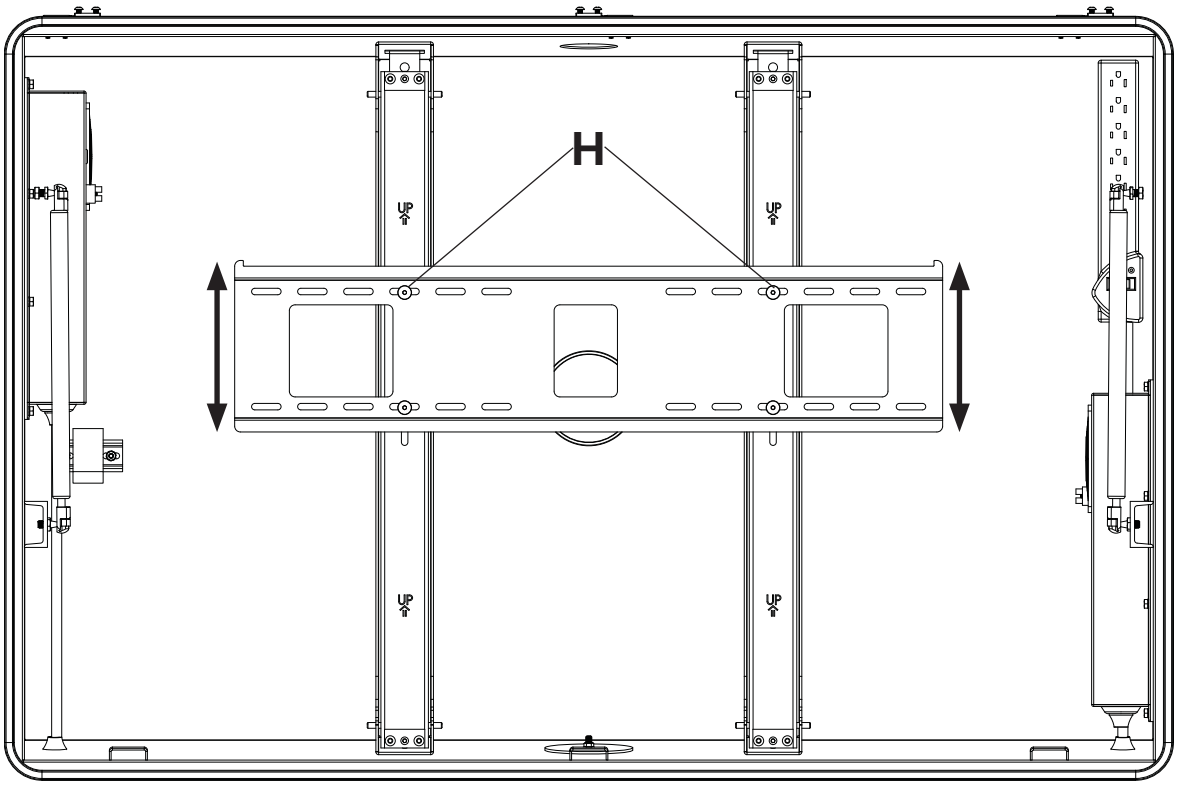
4

Reinstall rear supports into carriage supports. **NOTE:** Be sure "UP" arrow of rear support is pointing up.

Attach wall plate (**J**) to rear supports with four 12 mm flat head screws (**H**) and four serrated locknuts (**I**). Slide wall plate (**J**) to desired vertical position (+/- 3/4").

Level wall plate and retighten 12 mm flat head screws (**H**) using 4 mm allen wrench (**L**).





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Reinstalling Bay Door

⚠ WARNING

- Grasp bay door firmly. Bay door will swing freely when gas springs are removed.

5 If bay door was removed in step 1, lower bay door onto enclosure assembly and slide to the left to engage hinges. Align holes of center hinge with holes of enclosure assembly (**A**). Reinstall two 10-24 x .5" phillips screws to inside of enclosure assembly as shown in figure 5.1.

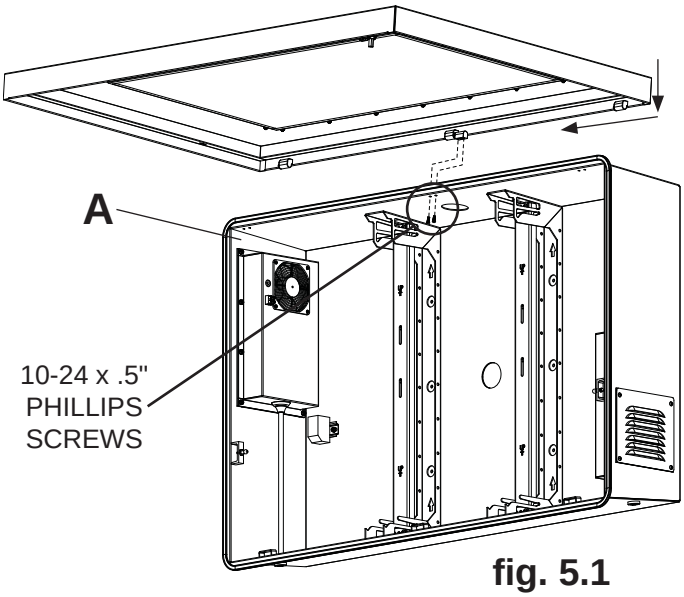
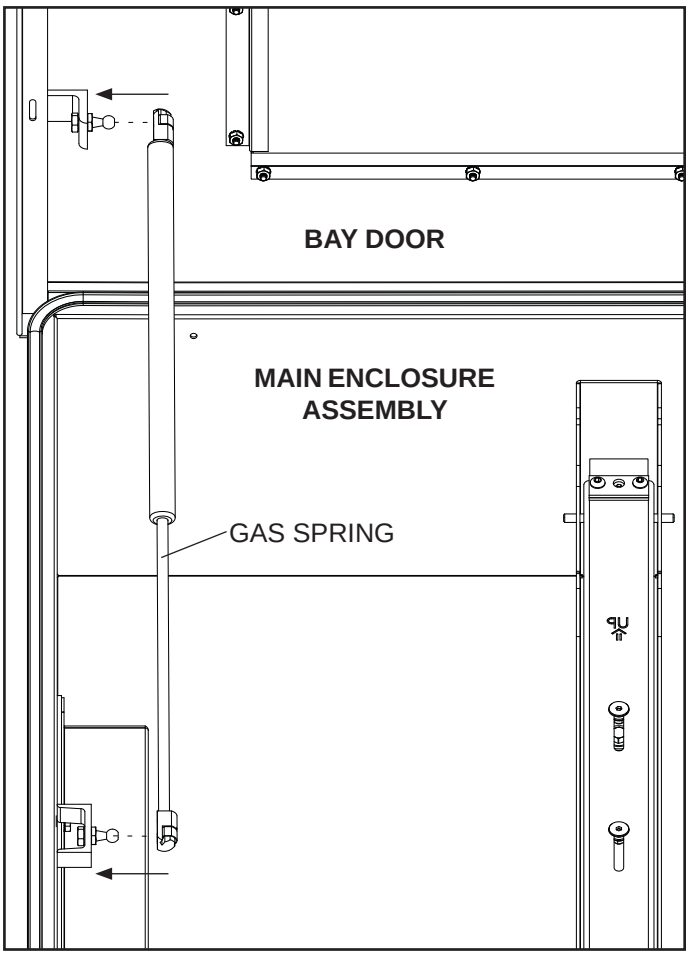


fig. 5.1

5-1 Secure both gas springs to bay door by pressing on as shown in detail 5.

NOTE: Be sure thin end of gas spring is attached to main enclosure assembly.



DETAIL 5

Installing Adapter Brackets

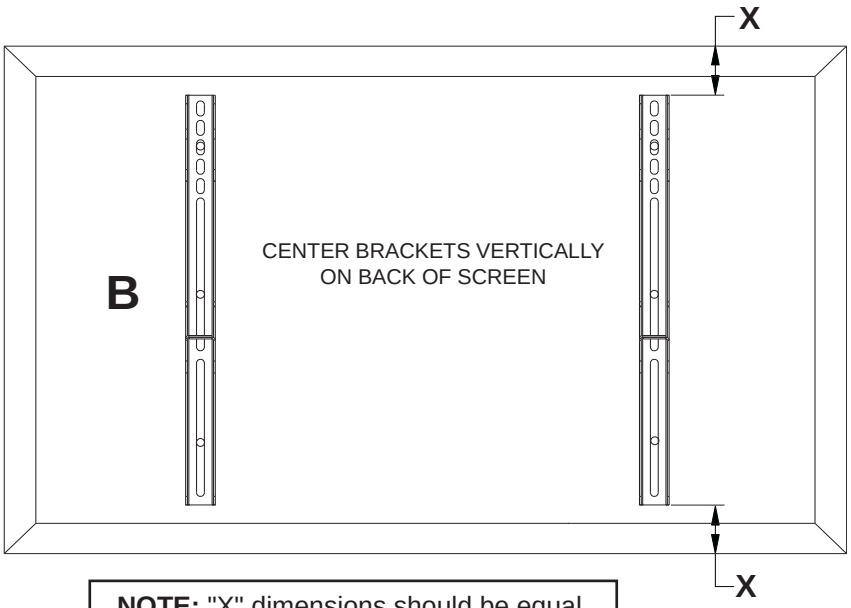
⚠ WARNING

- Tighten screws so adapter brackets are firmly attached. Do not tighten with excessive force. Overtightening can cause stress damage to screws, greatly reducing their holding power and possibly causing screw heads to become detached. Tighten to 40 in. • lb (4.5 N.M.) maximum torque.
- If screws don't get three complete turns in the screen inserts or if screws bottom out and bracket is still not tightly secured, damage may occur to screen or product may fail.

6 To prevent scratching the screen, set a cloth on a flat, level surface that will support the weight of the screen. Place screen face side down. If screen has knobs on the back, remove them to allow the adapter brackets to be attached. Place adapter brackets (**B**) on back of screen, align to holes, and center on back of screen as shown below. Attach the adapter brackets to the back of the screen using the appropriate combination of screws, multi-washers and spacers as shown in steps 6-1 and 6-2.

NOTE: Top and bottom holes must always be used.

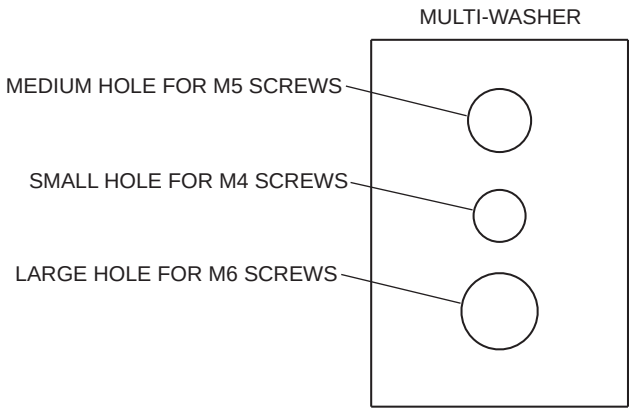
Verify that all holes are properly aligned, and then tighten screws using a phillips screwdriver.



NOTE: "X" dimensions should be equal.

Notes:

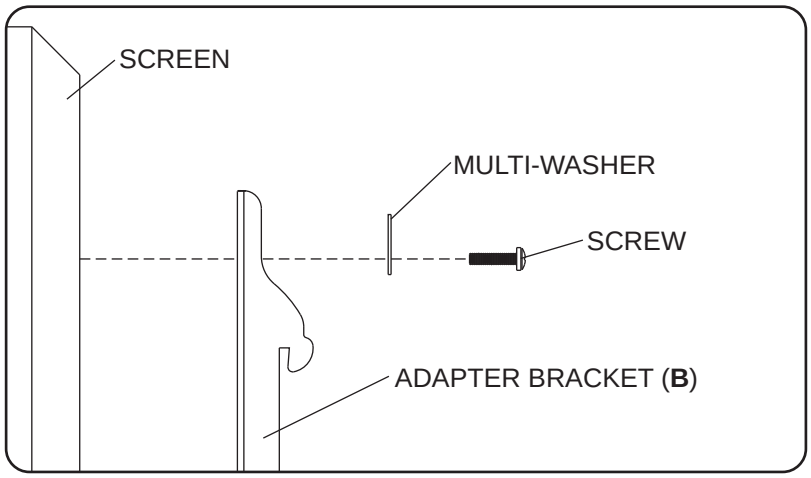
- The number of fasteners used will vary, depending upon the type of screen.
- Multi-washers and spacers may not be used, depending upon the type of screen.
- Use the corresponding hole in the multi-washer that matches your screw size as shown.



For Flat Back Screen

6-1 Begin with the shortest length screw, hand thread through multi-washer and adapter bracket into screen as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the screen, select a longer length screw from the baffled fastener pack. Repeat for remaining mounting holes, level brackets and tighten screws.

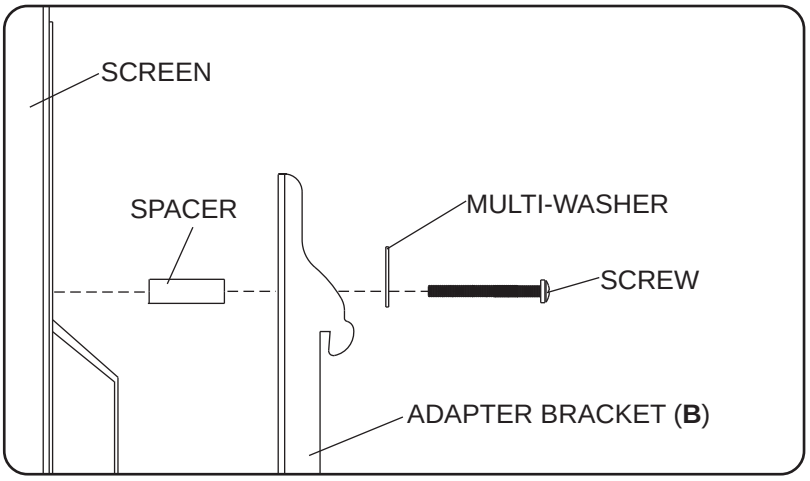
NOTE: Spacers may not be used, depending upon the type of screen.



If you have any questions, please call Peerless customer care at **1-800-865-2112**.

For Bump-out or Recessed Back Screen

6-2 Begin with longer length screw, hand thread through multi-washer, adapter bracket and spacer in that order into screen as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the screen, select a longer length screw from the baffled fastener pack. Repeat for remaining mounting holes, level brackets and tighten screws.



If you have any questions, please call Peerless customer care at **1-800-865-2112**.

Mounting and Removing Flat Panel Screen

⚠ WARNING

- Always use an assistant or mechanical lifting equipment to safely lift and position the flat panel screens.

7 Hook adapter brackets (**B**) onto wall plate (**J**) then slowly swing screen in as shown in figure 7.1.

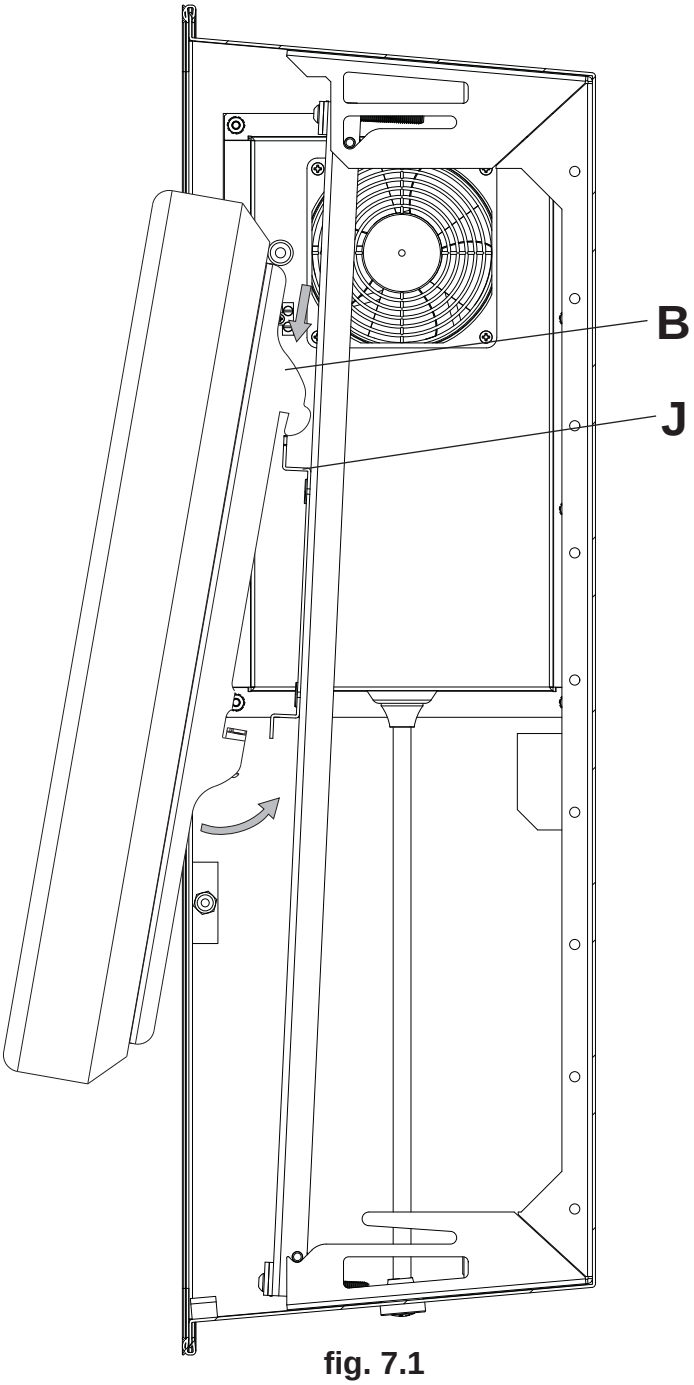


fig. 7.1

Swing rear supports up to access safety screws as shown in figure 7.2.

Turn safety screws, using 4 mm allen wrench (**L**), clockwise at least six times to prevent screen from being removed as shown in detail 6. **NOTE:** To lock the screen down, tighten safety screws to wall plate as shown in detail 6.

Route cables through ROXTEC cable seal and plug into appropriate connection.

CAUTION

- Do not postion AV and power cables close to heater or damge to cables may occur. See page 15 for more information.

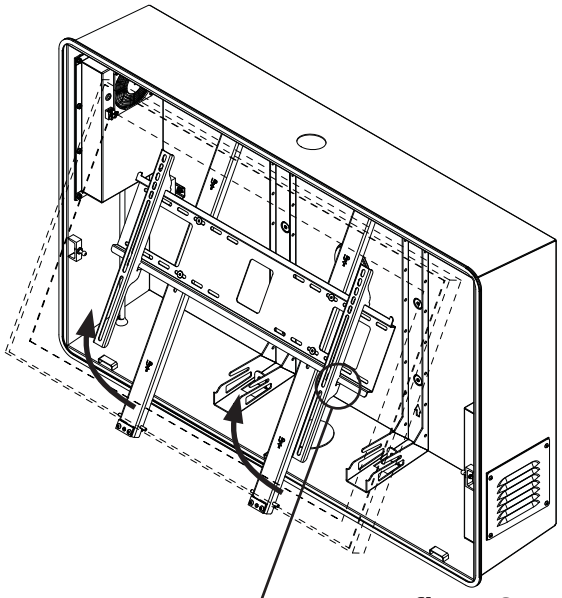
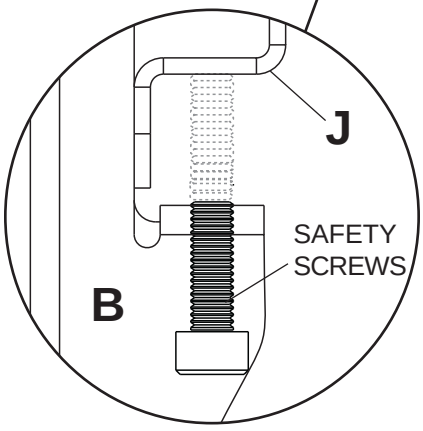


fig. 7.2



DETAIL 6

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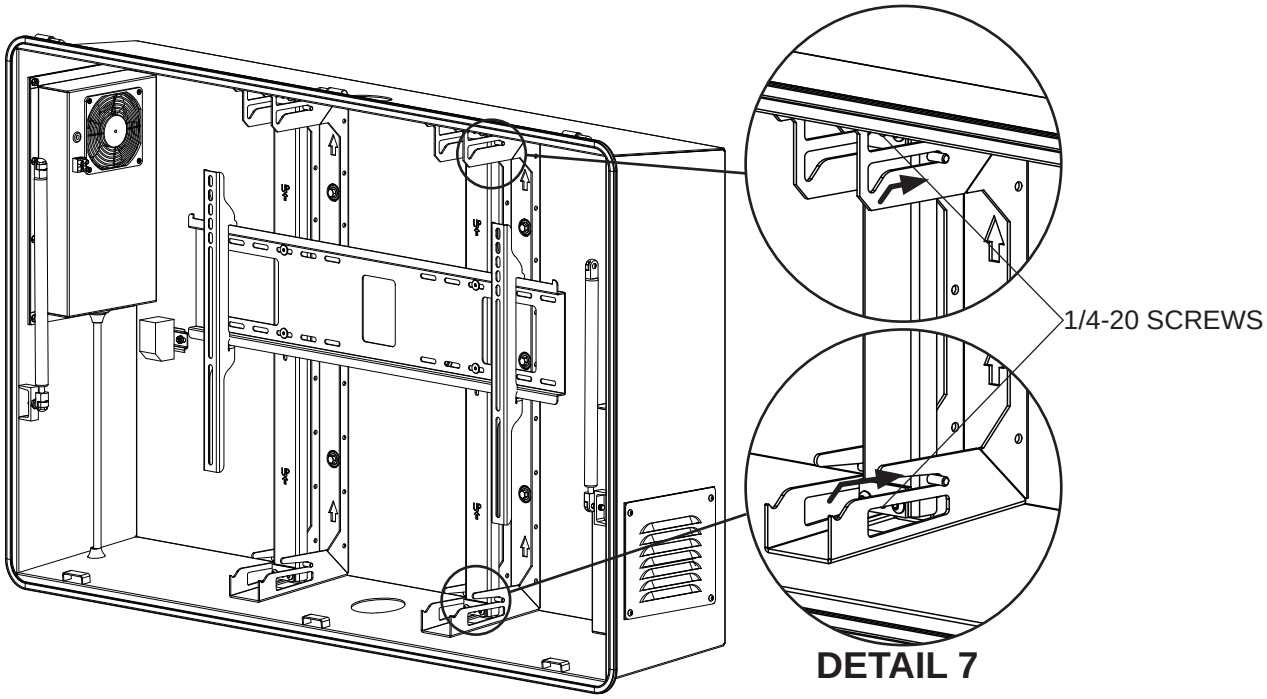
8 Firmly grasp top and bottom of screen. Lift up and push the bottom of the rear supports back until it rests in place then push the top of the rear supports back until it rests in place. Tighten 1/4-20 x 2.36" screws at top and bottom of rear supports as shown in detail 7.



DETAIL 7

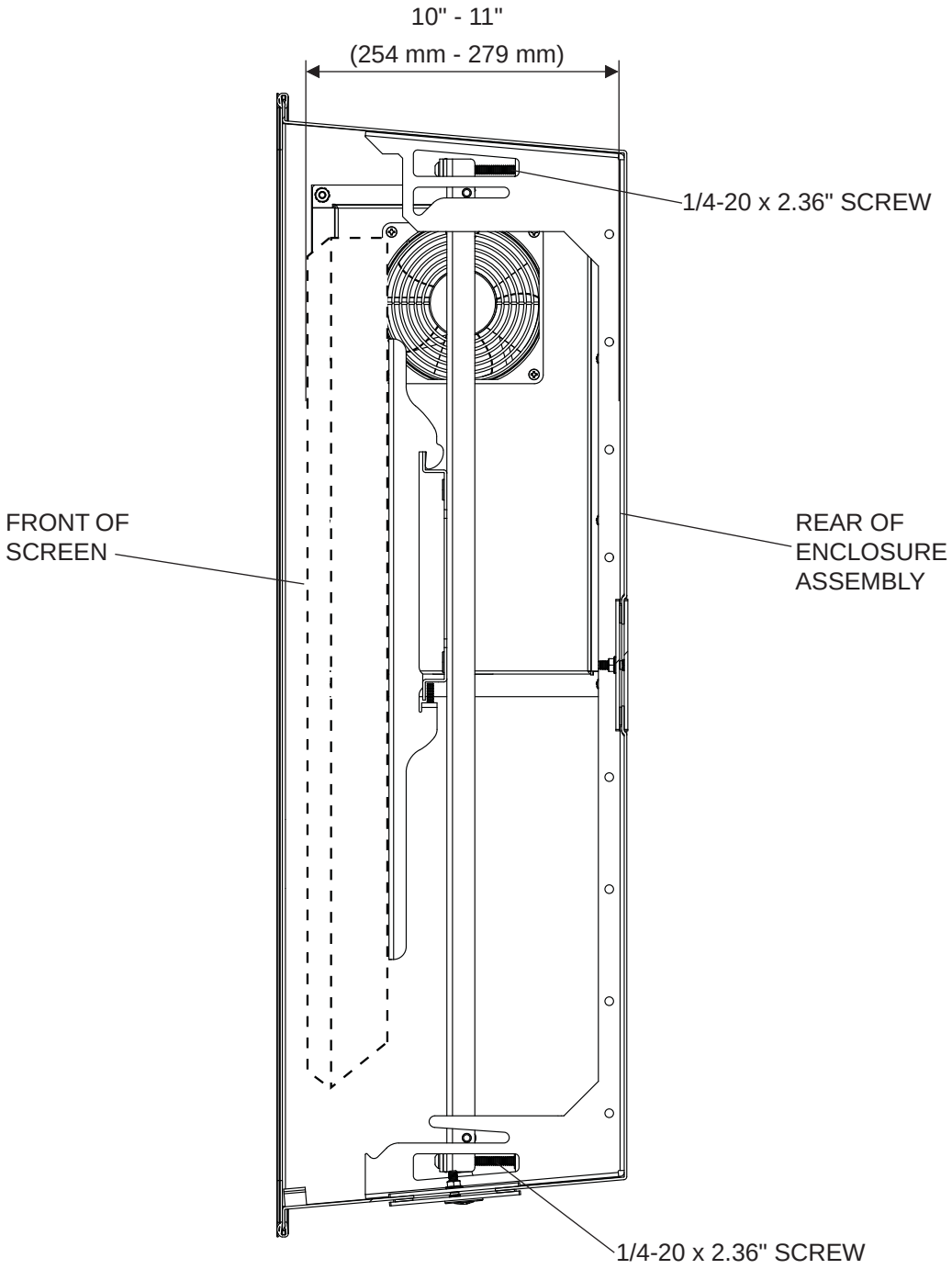
Depth Adjustment

⚠ WARNING

- Failure to allow this space for air circulation and to allow heat to dissipate from the screen may effect the visual appearance and/or cause damage to your screen.

8-1 **NOTE:** The installed display should allow a 1/2" air gap between the front of the screen and the interior surface of the window. A screen mounted directly against the window will create a dead air space that traps heat which may affect the funtionality of both the screen and the enclosure mount.

The distance from the rear of the enclosure assembly to the front of the screen should be between 10" - 11". Support brackets may be moved forward or backward by driving the 1/4-20 x 2.36" screws as shown below.



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Setting Thermostat

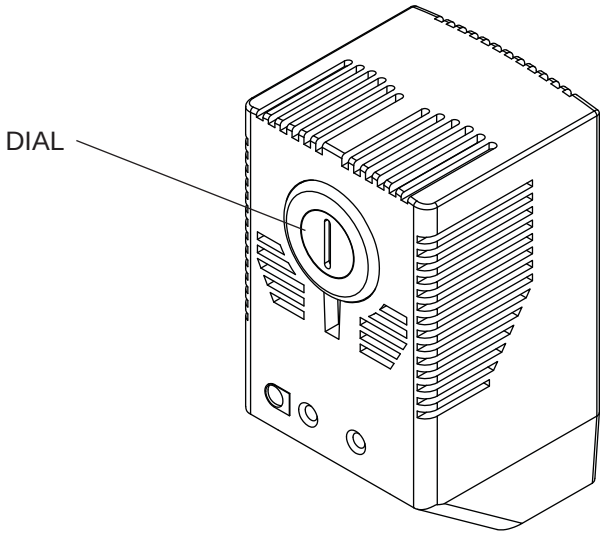
9 Refer to screen manufacturers' requirements for optimal environment temperature. If screen manufacturer's requirments state that cooler or warmer temperatures are acceptable, use a flatblade screwdriver to adjust dial to desired temperature.

NOTE: Thermostat inside enclosure assembly will determine at what time the Exhaust Fan will initiate. The Intake Fan will operate at all times. For all other questions, refer to thermostat instruction sheet included in enclosure assembly

HEATER INFORMATION (FPE42FH-S only)

Thermostat of heater is not adjustable. The heater will turn on at 40°±7° and will turn off at 60°±5°.

Heater uses a 20 amp fuse.

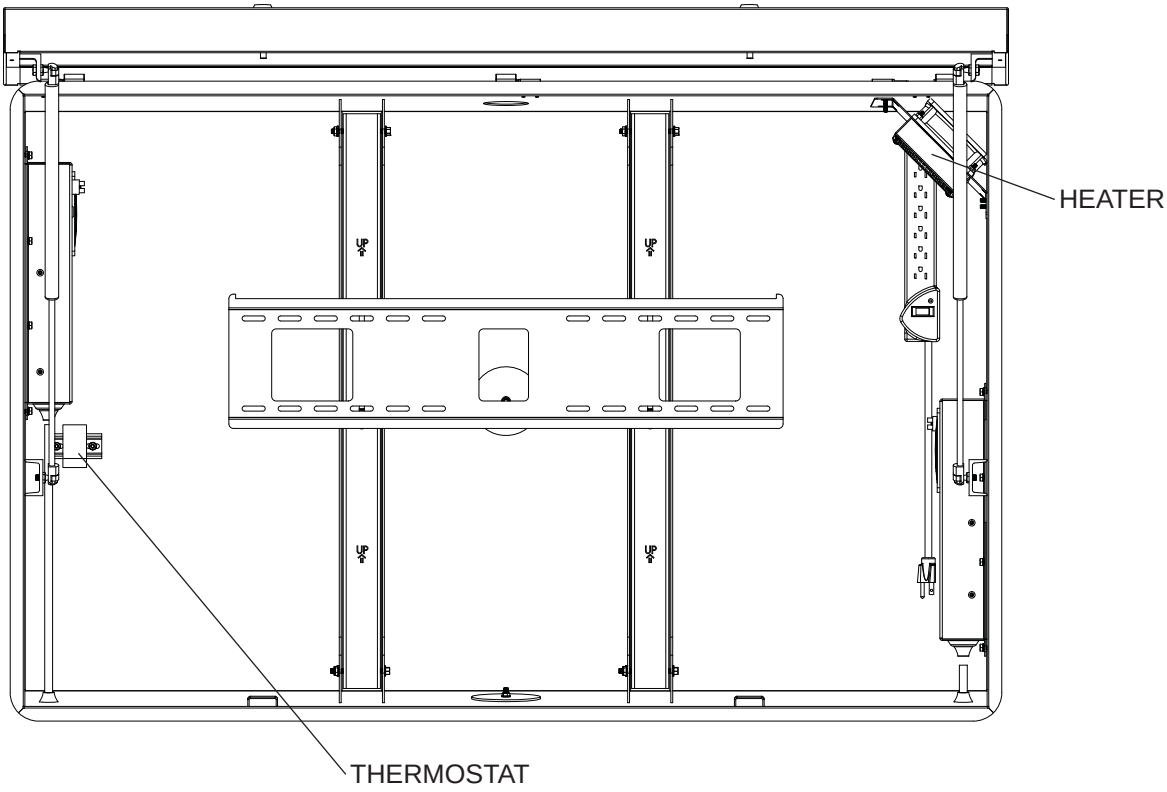


⚠ WARNING

- Frame of heater will be hot when turned on. Turn heater off allowing frame to cool prior to service.

CAUTION

- Do not postion AV and power cables close to heater or damge to cables may occur.



Locking Environmental Enclosure

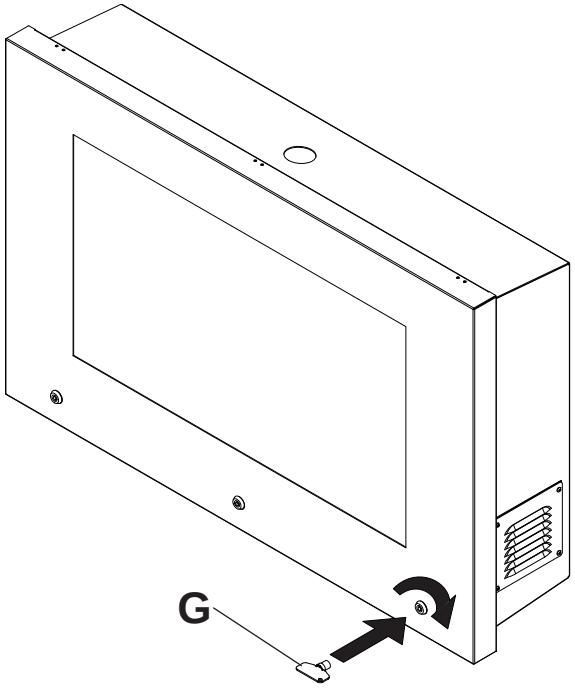
10 Gently lower bay door. Using key (**G**) rotate door locks clockwise until key cannot turn. Make sure that the key has fully rotated to seal enclosure. If key does not fully rotate, door lock may need to be adjusted for a looser seal.

NOTE: Gasket seal of bay door must be compressed to allow for a water tight seal. Test seal of door by inserting a sheet of paper in between the door seal and the enclsosure seal. If the sheet of paper is easily removed, door lock may need to be adjusted for a tighter seal.

See step 10-1 below for door lock adjustment.

CAUTION

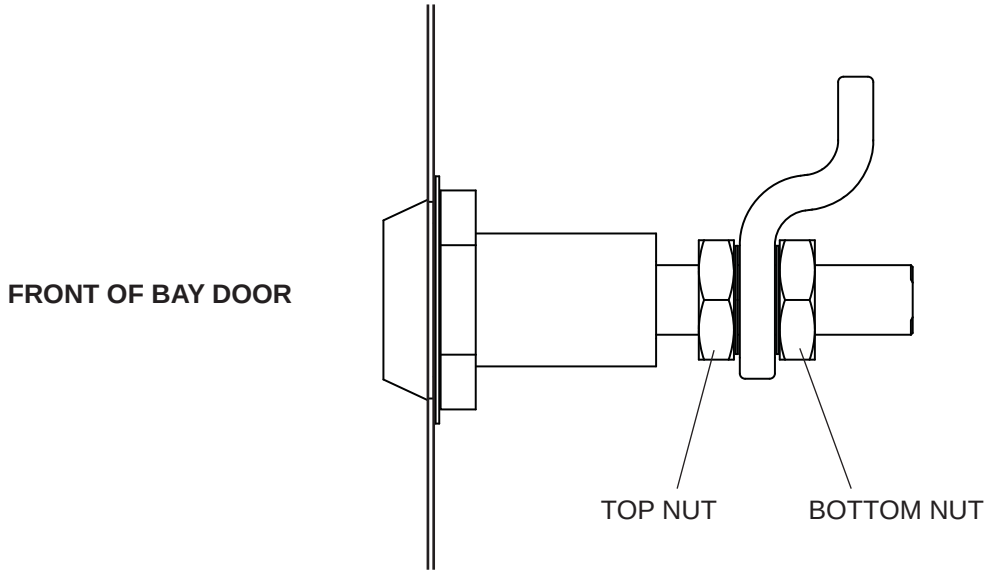
- Be careful not to pinch your fingers when opening and closing bay door.



Door Lock Adjustment

10-1 To allow for a tighter seal, loosen top nut of door locks 1/4" then tighten bottom nut of door locks against lock tab.

To allow for a more loose seal, loosen bottom nut of door locks 1/4" then tighten top nut of door locks against lock tab.



Fan Filter Replacment

11 Filterfan replacement filtermats are sold separately at www.filterfanusa.com, for Filterfan model PF 22000.

Remove cover from Filterfan on side of enclosure assembly (**A**) as shown in figure 11.1. Remove and replace filtermat as shown in figure 11.2.

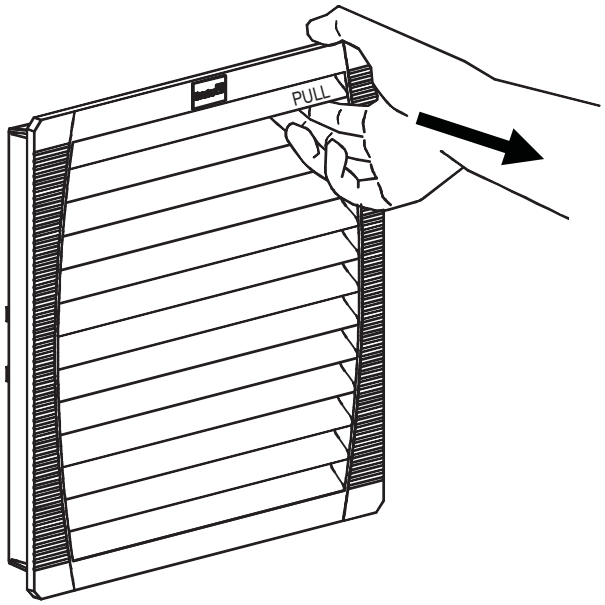


fig. 11.1

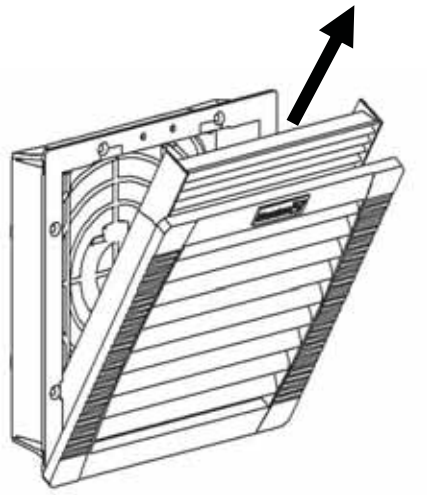


fig. 11.2

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